BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: BYATARAYANAPURA

Name of Work: *Estimate for Improvements to Roads and Drains at Ashwathagara in Ward No. 06, Baytarayanapura Sub Division.*

JOB CODE:

Estimated Cost: Rs. 20.00 Lakhs

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಯಲಹಂಕ ವಲಯ

ಬೆಂಗಳೂರು – 92.

ವರಧಿ:

ವಿಷಯ: Improvements to Roads and Drains at Ashwathnagara in Ward No.06 Byatarayanapura Sub Divisionನೇ ಕಾಮಗಾರಿ ಅಂದಾಜನ್ನು ಅನುಮೋದನೆಗೆ ಸಲ್ಲಿಸುವ ಬಗ್ಗೆ.

Job Code:

* * * * *

ಬ್ಯಾಟರಾಯನಪು ಉಪವಿಭಾಗ ವ್ಯಾಪ್ತಿಯಲ್ಲಿನ ಅಶ್ವಥನಗರ ಮುಖ್ಯರಸ್ತೆ ಮತ್ತು ಅಡ್ಡರಸ್ತೆಗಳ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ಚರಂಡಿಗಳ ನಿರ್ಮಾಣ ಕಾಮಗಾರಿಗೆ 2013–14ನೇ ಸಾಲಿನ POW ಕಾರ್ಯಕ್ರಮದಡಿ ರೂ. 20.00 ಲಕ್ಷಗಳ ಅನುದಾನಕ್ಕೆ ಅನುಮೋದನೆಯಾಗಿರುತ್ತದೆ.

ಅಶ್ವಥನಗರ ಬಡಾವಣೆಯಲ್ಲಿ ಹಾಲಿ ಶಿಥಿಲವಾಗಿ ಡಾಂಬರೀಕರಣ ಕಚ್ಚಾ ರಸ್ತೆಗಳಿದ್ದು, ಚರಂಡಿಗಳಿಲ್ಲದ ಕಾರಣ ಮಳೆಯ ನೀರು ಸರಾಗವಾಗಿ ಹೊರ ಹರಿಯದೆ ತಗ್ಗು ಪ್ರದೇಶದಲ್ಲಿ ನಿಂತು ಜನ ಜೀವನಕ್ಕೆ ಅನಾನುಕೂಲವಾಗಿರುವುದರ ಜೋತೆಗೆ ಪರಿಸರ ಮಾಲೀನ್ಯ ವಾಗಿರುತ್ತದೆ.

ಸದರಿ ಪ್ರದೇಶದಲ್ಲಿ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ಚರಿಂಡಿ ನಿರ್ಮಿಸಲು ಈ ಪ್ರದೇಶದ ಚುನಾಯಿತ ಪ್ರತಿನಿಧಿಗಳು ಹಾಗೂ ಗ್ರಾಮಸ್ಥರು ಕೋರಿರು ಮೇರೆಗೆ ಖುದ್ದಾಗಿ ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ ಈ ಕೆಂಳಕಂಡಂತೆ ಅಂದಾಜನ್ನು ತಯಾರಿಸಿ ಸಲ್ಲಿಸಲಾಗಿದೆ.

1. ಕೂಡು ರಸ್ತೆಯಲ್ಲಿನ ಶಿಥಿಲವಾಗಿರುವ ಚರಂಡಿಗಯನ್ನು ತೆಗೆದು ವಿನ್ಯಾಸಕ್ಕನುಗುಣವಾಗಿ ಪುನರ್ ನಿರ್ಮಿಸುವುದು.
2. ಅವಶ್ಯವುರವ ಕಡೆ ವಿನ್ಯಾಸಕ್ಕನುಗುಣವಾಗಿ ಅಡಿಗಾಲುವೆಗಳಿಗೆ ಛಾವಣಿ ಹಾಕುವುದುವುದು.
3. ಶಿಥಿಲವಾಗಿರುವ ಡಾಂಬರ್ ಮೇಲ್ಮೈಯನ್ನು ತೆಗೆದು ಅವಶ್ಯಕ ವಾಟ್ಟಕ್ಕೆ ಮಾಟ್ಟಮಾಡುವುದು.
4. ರಸ್ತೆಯಲ್ಲಿನ ಸಂಚಾರ ದಟ್ಟಣೆಗೆ ಅನುಗುಣವಾಗಿ ಸಭ್‌ಬೇಸ್‌ನ್ನು ವೆಟ್‌ಮಿಕ್ಸ್‌ನಿಂದ ಉತ್ತಮ ಪಡಿಸುವುದು.
5. ರಸ್ತೆಯ ಮೇಲ್ಪದರಕ್ಕೆ 25ಎಂಎಂ ದಪ್ಪದ ಎಸ್.ಡಿ.ಬಿ.ಸಿಯನ್ನು ಅಳವಡಿಸುವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಅಂದಾಜನ್ನು 2013–14ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ದರಪಟ್ಟಿಯನ್ನು ಅನುಸರಿಸಿ ರೂ. 20.00 ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಿದ್ದು, 2013–14ನೇ ಸಾಲಿನ POW ಕಾರ್ಯಕ್ರಮದಡಿಯಲ್ಲಿನ ಅನುದಾನದಲ್ಲಿ ಅನುಮೋದಿಸಿ ಅಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಹಾಗೂ ತಾಂತ್ರಕ ಮಂಜೂರಾತಿಯನ್ನು ನೀಡಲು ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 06 (ಥಣಿಸಂದ್ರ)
ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು – 24.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Ashwathagara in Ward No. 06, Baytarayanapura Sub Division.**

								Estimate Cost:	2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	Desilting of Drains								
			3	100.00	0.45	0.30	40.50		
			3	40.00	0.45	0.30	16.20		
	Berm Cutting								
			3	100.00	1.20	0.20	72.00		
			3	40.00	1.20	0.25	36.00		
							164.70	90.72	**14942.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	Removing B.S. Slab Drain and stacking **(P. 28 / I. 5.32 PWD SR - 2013-14)**	Sqm							
			2	105.00		1.35	283.50		
			2	60.00		1.35	162.00		
							445.50	50.11	**22325.00**
	Basic Rate	46.40							
	Area Weightage @8%	3.71							
	Total	**50.11**							
3	Refixing stone slabs of drains and pointing in CM (1:3) **(P. 28 / I. 5.33 PWD SR - 2013-14)**	Sqm							
			Vide Item No.2				**445.50**	70.04	**31202.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							
4	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	For Culvert Covering Slab		10	6.50		0.60	39.00		
			20	6.50		0.25	32.50		
			20	1.80		0.25	9.00		
							80.50	271.08	**21822.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2013-14**	Cum							
	Culvert Covering Slab		10	6.50	1.80	0.25	29.25		
							29.25	5639.76	**164963.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
6	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14 TMT bar Fe 500**	Qntl							
			0.90	29.25			26.33		
							26.33	7450.92	**196145.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	**7450.92**							
7	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.3 / PWD SR 2013-14**	Sqm							
			3	100.00	5.50		1650.00		
			3	41.00	5.50		676.50		
							2326.50	72.79	**169351.00**
	Basic Rate	67.40							
	Area Weightage @ 8%	5.39							
	Total	**72.79**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14.**	Cum							
			3	100.00	5.50	0.15	247.50		
			3	41.00	5.50	0.15	101.48		
							348.98		
	~~Add Extra for Road Cutting Portion @ 10%~~						~~34.90~~		
							383.87	1121.04	**430336.00**
	Basic Rate	1038.00					348.98		391220.53
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
9	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							
			3	100.00	5.50		1650.00		
			3	41.00	5.50		676.50		
							2326.50	10.53	**24498.00**
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	**10.53**							
10	KSRRB 500-5: providing and applying primer coat from 12.2 to 14.6kg per 10 sqm for surfaces of high porosity over prepared surface of granular base with cut back M.C.-70 or any other bitumen mixed with diesel at 13 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.5 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 13				2326.50		
							2326.50	142.07	**330535.00**
	Basic Rate	131.55							
	Area Weightage @ 8%	10.52							
	Total	**142.07**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 178 / Item No. 21.20.4 / PWD SR 2013-14.**	Cum							
			3	100.00	5.50	0.025	41.25		
			3	41.00	5.50	0.025	16.91		
							58.16	9981.36	**580541.00**
	Basic Rate	9242.00							
	Area Weightage @ 8%	739.36							
	Total	**9981.36**							
12	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
				Vide Item No. 1			**164.70**	72.71	**11975.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
13	Miscellaneous and other Charges	L/S							**1365.00**
								Total	**2000000.00**
	(Rs. Twenty Lakhs Only)								

ADMINISTRATIVELY SANCTIONED FOR Rs 20.00 lakhs
Rupees Twenty lakhs only
Under P1771
Registered as EE ( ) No ... 9...
Subject to conditions contained in enclosed memo No EE(Mtce) 314/13-14
Dt 29/10/13 Estimate A/S sanctioned
dated No.
Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92
20 Lakhs
Twenty Lakhs
P1771
Registered as EE ... Subject
conditions contained enclosed memo.
Dt.
EE/100/13-14, Dt. 29-10-13
Executive Engineer (B'lore Div.)
20.00 Lakhs
1365.00
20480.49
1-1. third party Inspection charges

CERTIFICATE:

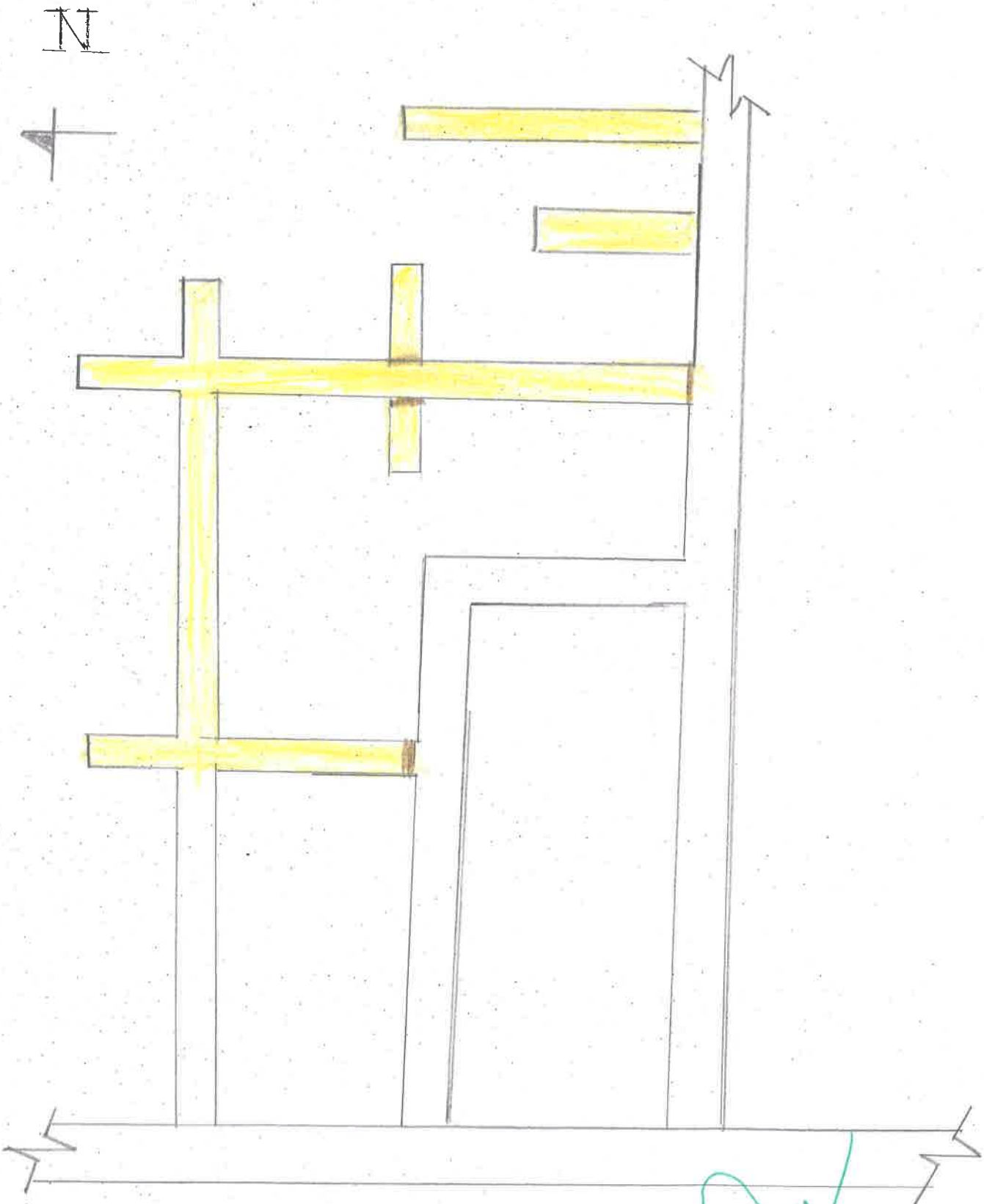
1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 This work included under 2013-14 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Improvements to Roads and Drains at Ashwathnagara in Ward No.06
Byatarayanapura Sub Division



ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

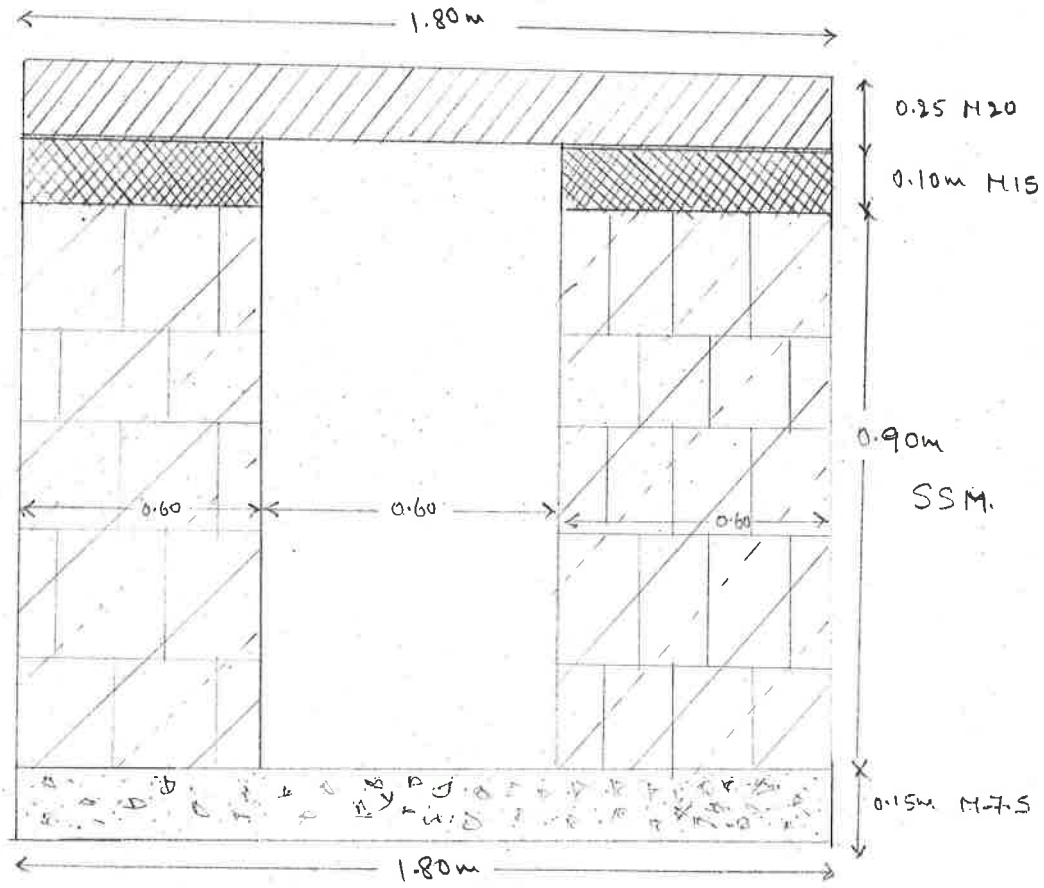
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

CROSS-SECTION OF ROAD

INDEX

ASSISTANT ENGINEER
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
ASSISTANT EXECUTIVE ENGINEER
BYATARAYANAPURA SUB DIVISION.
B.B.M.P. Bangalore-24

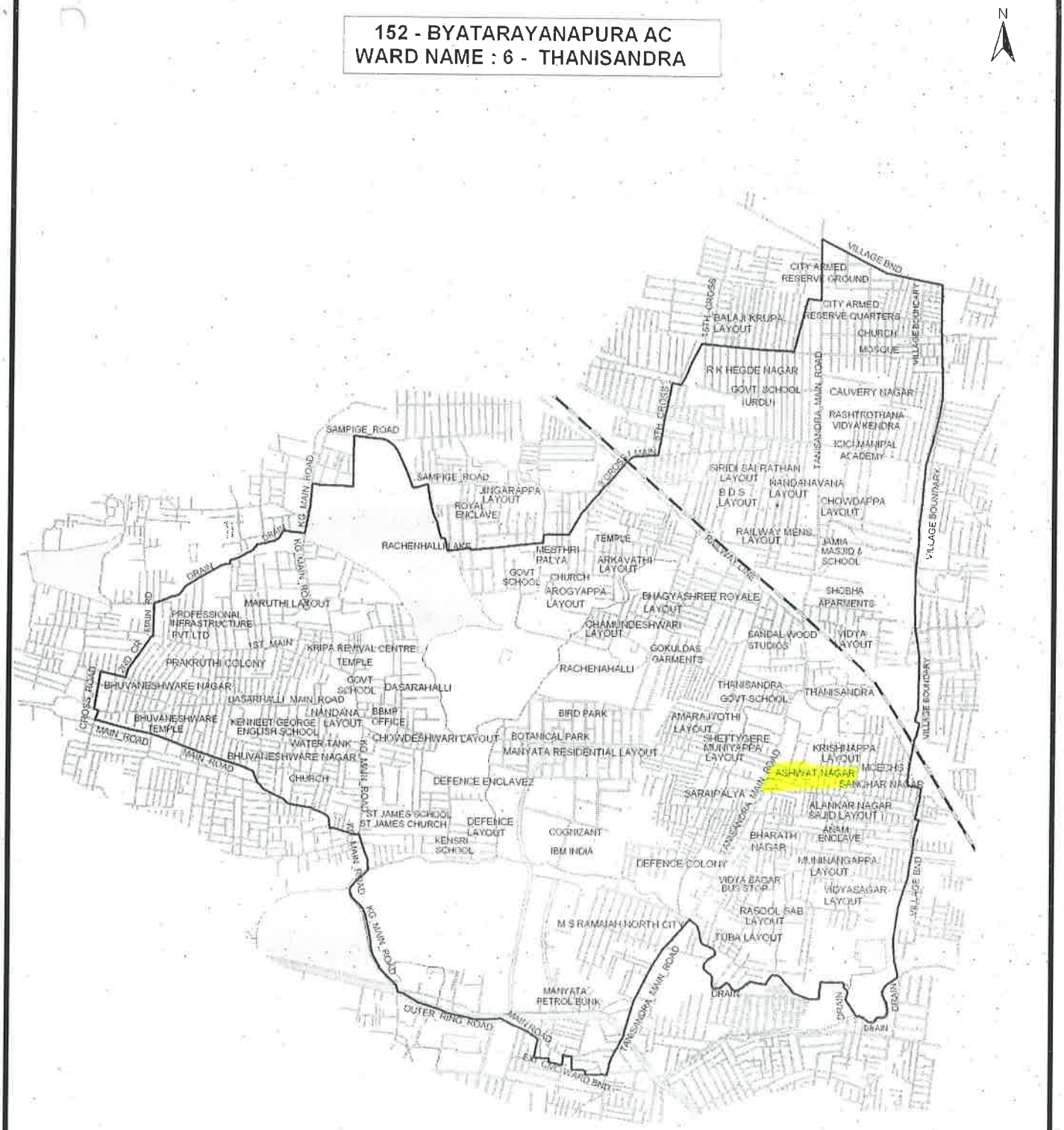


CROSS SECTION OF CULVERT

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

152 - BYATARAYANAPURA AC
WARD NAME : 6 - THANISANDRA



ಸಹಾಯಕ ಆಯುಕ್ತರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬಾಣಸವಾಡಿ ಉಪ ವಿಭಾಗ

Assistant Executive E:
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

INDEX

- PROPOSED WARD BOUNDARY
- RIVER/ DRAIN
- RAILWAY LINE
- ROAD